I hereby certify that this paper is being transmitted on this date via facsimile to

Examiner Cornelius H. Jackson of the United States Patent and Trademark Office at

PAGE 02

RECEIVED CENTRAL FAX CENTER SEP 17 2004

Chen 1-18

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(571) 273-1942

Patent Application

Applicant(s): Y. Chen et al.

Case:

1-18

Serial No.:

09/608,639 June 30, 2000

Filing Date: Group:

2828

Examiner:

Cornelius H. Jackson

Title:

System Comprising Optical

Semiconductor Waveguide Device

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Six:

As per your request, listed below are claims 2 and 12-15 of the above-identified application. Please let us know if you require any additional information.

- 2. (Previously presented) The system of claim 1, wherein the coupling efficiency is at least 50% with or without the presence of coupling optics located between the gain medium and the optical waveguide.
- 12. (Previously presented) The system of claim 11, wherein the coupling efficiency is at least 50%.

- 13. (Original) The system of claim 11, wherein the bit error rate of the system is less than 10^{-9} .
- 14. (Original) The system of claim 13, wherein the bit error rate of the system is less than 10⁻¹².
 - 15. (Original) The system of claim 13, wherein the laser is operated at 2.5 GHz or greater.

Respectfully submitted,

Date: September 17, 2004

Joseph B. Ryan

Attorney for Applicant(s)

Reg. No. 37,922

Ryan, Mason & Lewis, LLP

90 Forest Avenue

Locust Valley, NY 11560

(516) 759-7517

RECEIVED
CENTRAL FAX CENTER

SEP 17 2004

RYAN, MASON & LEWIS, LLP ATTORNEYS AT LAW 90 FOREST AVENUE LOCUST VALLEY, NEW YORK 11560

Telephone: (516) 759-2722 Facsimile: (516) 759-9512 Email: jbr@rml-law.com

DATE: September 17, 2004

FILE: Serial No. 09/608,639

Attorney Docket No. Chen 1-18

Facsimile Message From:

JOSEPH B. RYAN

Please deliver the following pages to:

NAME: Examiner Cornelius H. Jackson

OF: U.S. Patent and Trademark Office

FAX NUMBER: (571) 273-1942

NUMBER OF PAGES INCLUDING THIS COVER PAGE; 3

COMMENTS/INSTRUCTIONS

If you do not receive all of the pages, please call us back as soon as possible at (516) 759-2722.

THIS MESSAGE IS INTENDED FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW, IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATIONINERROR, PLEASE NOTIFY USIMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA U.S. POSTAL SERVICE. THANK YOU.